

# Point Set Topology- Spring 2021

Instructor: Bentuo Zheng  
Class Type: **Fully Online**

Email: bzheng@memphis.edu  
Class Time: TR 2:40pm-4:05pm

**Class Meeting:** ID and link of Zoom meeting will be sent by email before each class.

**Office Hours:** Video conference by appointments through Zoom.

**Required Text:** *No Textbook Required.*

**Reference Book:** *Point Set Topology*, by Steven A. Gaal.

**Catalog Title and Description:** (CREDIT 3.0) This course is intended for graduate students who have already had basic knowledge in the topology of metric spaces; the aim is to give a reasonably self-contained presentation to classical point set topology. The students are expected to learn topological spaces, continuous functions, connectedness, compactness, countability, separation axioms, the Tychonoff Theorem, metrization theorems and Paracompactness.

**Grading Policy:** Grades will be calculated according to the following percentages:

Homework	20%	A = 85-100%
Three Midterm Exams	45%	B = 75-84%
One Final Exam	15%	C = 65-74%
Projects and Presentations	20%	D = 55-64%
		F = below 55%

**Final Exam Schedule:** <http://www.memphis.edu/registrar/calendars/>

**Midterm Exams Schedule:** The exact dates will be announced in class at least one week before each exam.

**Make-up Policy:** No make-ups will be given. With written evidence of an official University excused absence, a student's final exam grade will replace the grade of the missing exams. If no such notice is given, the rights to a make-up are forfeited. In addition (and also in accordance with University Student Rules), a written excuse must be presented upon return to class. Specifically, in the case of illness or injury, students are required to obtain a confirmation note from a health care professional affirming date and time of a medical office visit regarding the illness or injury.

**Graded Homework:** Homework will be given in class. You can discuss problems with your classmates (only in this section), and then write them down by yourself. **No late homework assignments will be accepted without written verification of a University excused absence.**

**Projects and Presentations:** Projects will be announced in class during the semester. All the projects need to be written in Latex. Each student will be required to make a 20-minute presentation on each project. **No late projects will be accepted without written verification of a University excused absence.**